

ABSTRACT OF THE DISCLOSURE

An aviation gasoline (Avgas) fuel composition possessing a high motor octane number and which contains reduced amounts of tetraethyl lead is disclosed. The Avgas composition preferably comprises about 20 to about 80 vol% iso-octane, about 5 to about 18 vol% toluene, about 1 to about 20 vol% C₄ to C₅ paraffins, about 0 to about 1 ml/gallon tetraethyl lead (TEL) and the balance light alkylate. The Avgas composition may be economically produced utilizing spare methyl tertiary butyl ether plant capacity to produce iso-octane as one component of the composition.

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